__Amendments to the Claims__

This listing of claims will replace all prior versions and listings of claims in the above-identified application.

Listing of Claims

1-35.   (Canceled)

36-38. **(Canceled)**

39.   **(Currently amended)** An apparatus comprising:

a light source configured to produce a coherent beam;

a beam splitter configured to split the coherent beam into

an object beam__,__ and

a reference beam;

a material holder **<u>configured to</u>** hold [[ing]] a holographic recording material;

an object beam unit configured to[[:]]

display a rendered image,

condition the object beam with the rendered image, and

cause the object beam to interfere with the reference beam at a location for an elemental hologram of a holographic stereogram on the holographic recording material;

a voxel-control lens located in [[the]] <u>a</u> path of the object beam and positioned at a distance from the location for the elemental hologram, wherein the **<u>distance</u>** ~~position~~ is based at least in part on[[:]]

a focal length of the voxel-control lens, and

a size of the elemental hologram; and

a computer programmed to control [[the]] <u>a</u> delivery of the rendered image to the object beam unit.

40. (**Currently amended**) <u>The apparatus of</u> <s>An apparatus as in</s> claim 39, wherein:

the object beam unit comprises a spatial light modulator (SLM) [[for]] <u>configured to</u> display [[ing]] the rendered image; and

the voxel-control lens has a focal length about equal to a distance between the voxel-control lens and the SLM.

41. (**Currently amended**) <u>The apparatus of</u> <s>An apparatus for printing holographic stereograms as in</s> claim 39, wherein:

the object beam unit comprises a SLM [[for]] <u>configured to</u> display [[ing]] the rendered image; and

the voxel-control lens has a focal length about equal to a distance between the voxel-control lens and a projected image of the SLM.

42-56. (Canceled)

57. (**Currently amended**) A method comprising:

selecting a location for an elemental hologram of a holographic stereogram in a holographic recording medium;

generating a coherent light beam;

splitting the beam into

an object beam<u>,</u> and

a reference beam;

rendering an image;

conditioning the object beam with the rendered image, <u>wherein</u> the conditioning <s>of the object beam</s> compris<u>es</u> [[ing:]]

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positioning a voxel-control lens at a distance from the **selected** location for the
elemental hologram, wherein the position**ing** is based at least in part
on[[:]]

a focal length of the voxel-control lens, and

a size of the elemental hologram, and

passing the object beam through the voxel-control lens; and

interfering the conditioned object beam with the reference beam at the selected location
for the elemental hologram.

58-64. (Canceled)

65.   **(Currently amended)** The method of claim 57, wherein the **voxel-control** ~~voxel-control~~ lens is positioned at a location selected to**:**

change the size of at least one voxel **of the holographic stereogram; and** ~~, and to~~

make the rendered image**,** ~~as seen~~ from [[the]] **a** viewpoint of **the selected location for**
the elemental hologram**,** appear at a greater apparent distance relative to the
holographic recording material.

66.   **(Currently amended)** **The method of** ~~A method as in~~ claim 57, wherein:

the conditioning ~~of the object beam with the rendered image~~ comprises displaying the
rendered image on a spatial light modulator (SLM); and

the focal length of the voxel-control lens is about equal to a distance between the voxel-
control lens and the SLM.

67.   **(Currently amended)** **The method of** ~~A method as in~~ claim 57, wherein:

the conditioning ~~of the object beam with the rendered image~~ comprises displaying the
rendered image on a spatial light modulator (SLM); and

the focal length of the voxel-control lens is about equal to a distance between the voxel-
control lens and a projected image of the SLM.

68.   (**New**) A system comprising:

    means for selecting a location for an elemental hologram of a holographic stereogram in a holographic recording medium;

    means for generating a coherent light beam;

    means for splitting the beam into

        an object beam, and

        a reference beam;

    means for rendering an image;

    means for conditioning the object beam with the rendered image, comprising

        means for positioning a voxel-control lens at a distance from the selected location for the elemental hologram, wherein the positioning is based at least in part on

            a focal length of the voxel-control lens, and

            a size of the elemental hologram, and

        means for passing the object beam through the voxel-control lens; and

    means for interfering the conditioned object beam with the reference beam at the selected location for the elemental hologram.

69.   (**New**) The system of claim 68, wherein the means for positioning is configured to position the voxel-control lens at a location selected to:

    change the size of at least one voxel of the holographic stereogram; and

    make the rendered image, from a viewpoint of the selected location for the elemental hologram, appear at a greater apparent distance relative to the holographic recording material.

70.   (**New**) The system of claim 68, wherein:

    the means for conditioning the object beam with the rendered image comprises

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means for displaying the rendered image on a spatial light modulator (SLM); and

the focal length of the voxel-control lens is about equal to a distance between the voxel-control lens and the SLM.

71.   **(New)** The system of claim 68, wherein:

the means for conditioning the object beam with the rendered image comprises

means for displaying the rendered image on a spatial light modulator (SLM); and

the focal length of the voxel-control lens is about equal to a distance between the voxel-control lens and a projected image of the SLM.

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